

Release notes for ENDF/B Development n-051_Sb_125
evaluation



April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=5137, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=5137, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      238 TO      326
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=5137, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=5137, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      238
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5137, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      328
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      685
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      723
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      757
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      779
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 790

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 796

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 809

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 820

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 33
SECTION 3/ 33 NOT IN DIRECTORY RECORD NUMBER 828

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 836

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 858

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 879

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 54 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 54 | RECORD NUMBER | 899 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 55 | RECORD NUMBER | 918 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 56 | RECORD NUMBER | 937 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 57 | RECORD NUMBER | 955 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 58 | RECORD NUMBER | 973 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 59 | RECORD NUMBER | 990 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 60 | RECORD NUMBER | 1007 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 61 | RECORD NUMBER | 1023 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 62 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 62 | |
| | SECTION 3/ 62 NOT IN DIRECTORY | RECORD NUMBER 1039 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 63 | |
| | SECTION 3/ 63 NOT IN DIRECTORY | RECORD NUMBER 1054 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 64 | |
| | SECTION 3/ 64 NOT IN DIRECTORY | RECORD NUMBER 1069 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 65 | |
| | SECTION 3/ 65 NOT IN DIRECTORY | RECORD NUMBER 1084 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 66 | |
| | SECTION 3/ 66 NOT IN DIRECTORY | RECORD NUMBER 1098 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 67 | |
| | SECTION 3/ 67 NOT IN DIRECTORY | RECORD NUMBER 1112 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 68 | |
| | SECTION 3/ 68 NOT IN DIRECTORY | RECORD NUMBER 1125 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 69 | |
| | SECTION 3/ 69 NOT IN DIRECTORY | RECORD NUMBER 1138 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 70 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 70 | |
| | SECTION 3/ 70 NOT IN DIRECTORY | RECORD NUMBER 1151 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 71 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 71 | |
| | SECTION 3/ 71 NOT IN DIRECTORY | RECORD NUMBER 1163 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 72 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 72 | |
| | SECTION 3/ 72 NOT IN DIRECTORY | RECORD NUMBER 1175 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 73 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 73 | |
| | SECTION 3/ 73 NOT IN DIRECTORY | RECORD NUMBER 1187 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 74 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 74 | |
| | SECTION 3/ 74 NOT IN DIRECTORY | RECORD NUMBER 1198 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 75 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 75 | |
| | SECTION 3/ 75 NOT IN DIRECTORY | RECORD NUMBER 1209 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 76 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 76 | |
| | SECTION 3/ 76 NOT IN DIRECTORY | RECORD NUMBER 1220 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 77 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 77 | |
| | SECTION 3/ 77 NOT IN DIRECTORY | RECORD NUMBER 1230 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 78 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 78 | RECORD NUMBER | 1240 |
| SECTION 3/ 78 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT= 91 | RECORD NUMBER | 1250 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT=102 | RECORD NUMBER | 1259 |
| SECTION 3/102 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT=103 | RECORD NUMBER | 1287 |
| SECTION 3/103 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT=104 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT=104 | RECORD NUMBER | 1302 |
| SECTION 3/104 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT=105 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT=105 | RECORD NUMBER | 1315 |
| SECTION 3/105 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 3, MT=107 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 3, MT=107 | RECORD NUMBER | 1327 |
| SECTION 3/107 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 2 | RECORD NUMBER | 1344 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 16 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 16 | RECORD NUMBER | 1570 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 17 | RECORD NUMBER | 1581 |
| SECTION 4/ 17 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 22 | RECORD NUMBER | 1592 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 28 | RECORD NUMBER | 1603 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 32 | RECORD NUMBER | 1614 |
| SECTION 4/ 32 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 33 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 33 | RECORD NUMBER | 1625 |
| SECTION 4/ 33 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 51 | RECORD NUMBER | 1636 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 52 | RECORD NUMBER | 1664 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 53 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 53 | RECORD NUMBER | 1691 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 54 | RECORD NUMBER | 1718 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 55 | RECORD NUMBER | 1741 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 56 | RECORD NUMBER | 1764 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 57 | RECORD NUMBER | 1787 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 58 | RECORD NUMBER | 1810 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 59 | RECORD NUMBER | 1833 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 60 | RECORD NUMBER | 1856 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 61 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 61 | RECORD NUMBER | 1879 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 62 | RECORD NUMBER | 1902 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 63 | RECORD NUMBER | 1925 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 64 | RECORD NUMBER | 1948 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 65 | RECORD NUMBER | 1971 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 66 | RECORD NUMBER | 1994 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 67 | RECORD NUMBER | 2017 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 68 | RECORD NUMBER | 2040 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 69 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 69 | RECORD NUMBER | 2063 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 70 | RECORD NUMBER | 2086 |
| SECTION 4/ 70 NOT IN DIRECTORY | | |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 71 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 71 | RECORD NUMBER | 2109 |
| SECTION 4/ 71 NOT IN DIRECTORY | | |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 72 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 72 | RECORD NUMBER | 2132 |
| SECTION 4/ 72 NOT IN DIRECTORY | | |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 73 | RECORD NUMBER | 2155 |
| SECTION 4/ 73 NOT IN DIRECTORY | | |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 74 | RECORD NUMBER | 2178 |
| SECTION 4/ 74 NOT IN DIRECTORY | | |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 75 | RECORD NUMBER | 2201 |
| SECTION 4/ 75 NOT IN DIRECTORY | | |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 76 | RECORD NUMBER | 2224 |
| SECTION 4/ 76 NOT IN DIRECTORY | | |
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 77 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 77 | RECORD NUMBER | 2247 |
| SECTION 4/ 77 NOT IN DIRECTORY | | |
80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 78 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 78 | RECORD NUMBER | 2270 |
| SECTION 4/ 78 NOT IN DIRECTORY | | |
81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 4, MT= 91 | RECORD NUMBER | 2293 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 5, MT= 16 | RECORD NUMBER | 2317 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 5, MT= 17 | RECORD NUMBER | 2374 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 5, MT= 22 | RECORD NUMBER | 2405 |
| SECTION 5/ 22 NOT IN DIRECTORY | | |
85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 5, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 5, MT= 28 | RECORD NUMBER | 2559 |
| SECTION 5/ 28 NOT IN DIRECTORY | | |
86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 5, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5137, MF= 5, MT= 32 | RECORD NUMBER | 2680 |
| SECTION 5/ 32 NOT IN DIRECTORY | | |
87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 5, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 5, MT= 33
SECTION 5/ 33 NOT IN DIRECTORY

RECORD NUMBER 2722

88. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5137, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5137, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY

RECORD NUMBER 2761

- recent Warnings:

1. Fission widths given for non-fissile nucleus, but are zero
0: Fission?

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [615 more lines]
```

- fudge-4.0 Warnings:

1. The URR for this spin group needs higher energy resolution for correct representation of the average cross section
resonances / unresolved (Error # 0): URRinsufficientEnergyGrid

```
WARNING: More points needed in L=0 J=3.0 unresolved widths between 14. eV and 1.e2 eV
WARNING: More points needed in L=0 J=4.0 unresolved widths between 14. eV and 1.e2 eV
WARNING: More points needed in L=1 J=2.0 unresolved widths between 14. eV and 1.e2 eV
WARNING: More points needed in L=1 J=3.0 unresolved widths between 14. eV and 1.e2 eV
... plus 8 more instances of this message
```

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 1.02%
```

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 30: n[multiplicity:'2'] + Sb124 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -8948688.956375122 eV vs -8714690. eV!
```

2. Calculated and tabulated Q values disagree.
reaction label 31: n[multiplicity:'3'] + Sb123 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -15416185.08607483 eV vs -1.51867e7 eV!
```

3. Energy range of data set does not match cross section range
reaction label 31: n[multiplicity:'3'] + Sb123 / Product: n / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (15309300.0 -> 20000000.0) vs (15309400.0 -> 20000000.0)
```

4. Calculated and tabulated Q values disagree.
reaction label 32: $n + H1 + Sn124$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7549882.351791382 eV vs -7305630. eV!

5. Calculated and tabulated Q values disagree.
reaction label 33: $n + H2 + Sn123$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13812910.91795349 eV vs -1.34906e7 eV!

6. Calculated and tabulated Q values disagree.
reaction label 34: $n + H3 + Sn122$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13501519.74234009 eV vs -1.32566e7 eV!

7. Calculated and tabulated Q values disagree.
reaction label 35: $Sb126 + \gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5972070.695831299 eV vs 6221390. eV!

8. Calculated and tabulated Q values disagree.
reaction label 36: $n + He4 + In121$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5081514.488220215 eV vs -4831890. eV!

9. Calculated and tabulated Q values disagree.
reaction label 37: $H1 + Sn125_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1816781.717712402 eV vs -1567540. eV!

10. Calculated and tabulated Q values disagree.
reaction label 38: $H2 + Sn124_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5325316.250854492 eV vs -4995510. eV!

11. Calculated and tabulated Q values disagree.
reaction label 39: $H3 + Sn123_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7555677.977340698 eV vs -7305460. eV!

12. Calculated and tabulated Q values disagree.
reaction label 40: $He4 + In122_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 726097.2861785889 eV vs 1002210. eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 33
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided